J. HALEY.

WATCH DIAL FASTENER.

APPLICATION FILED DEC. 14, 1910.

995,533. Patented June 20, 1911.

Fig. 1.

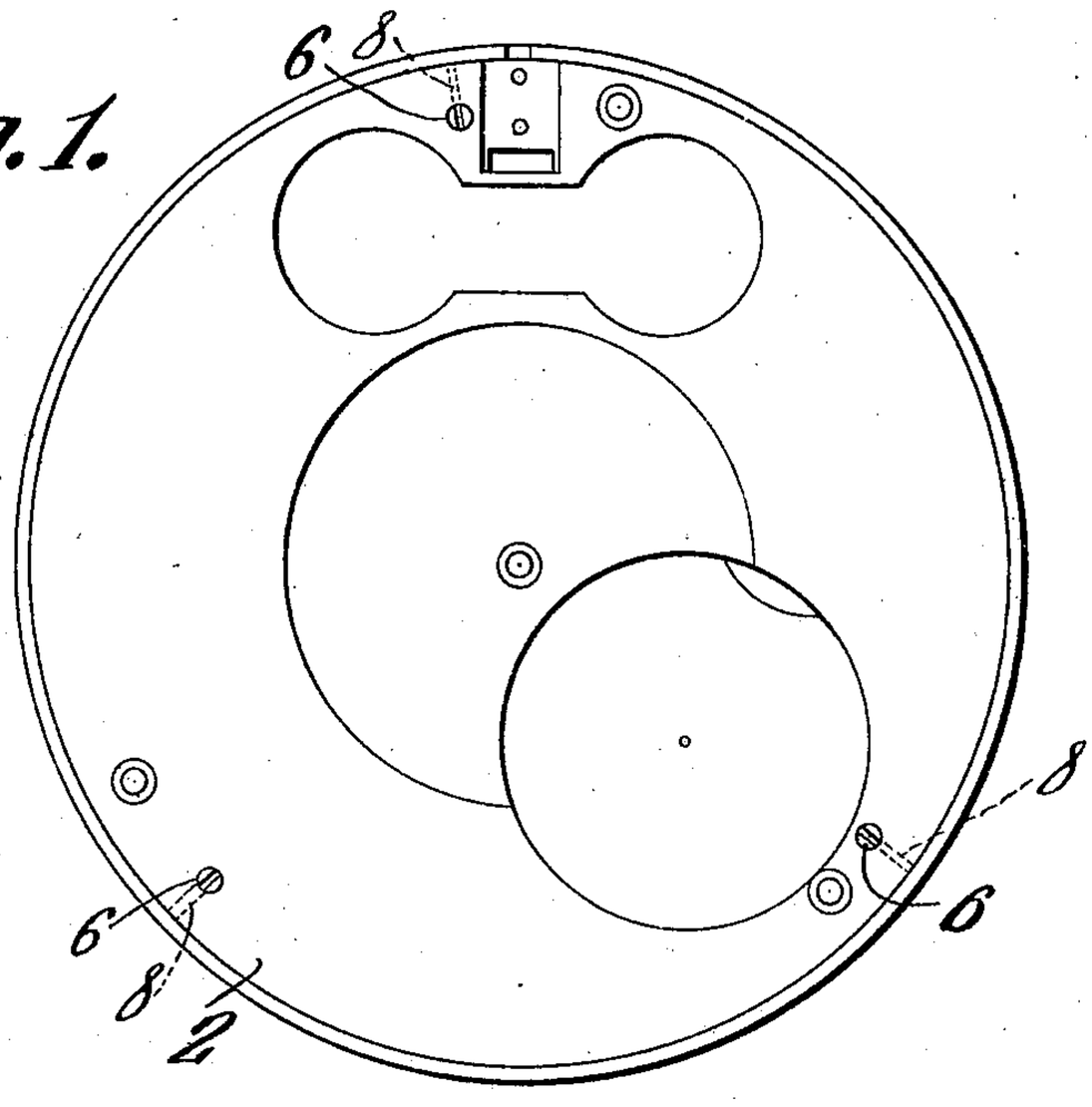


Fig. 2.

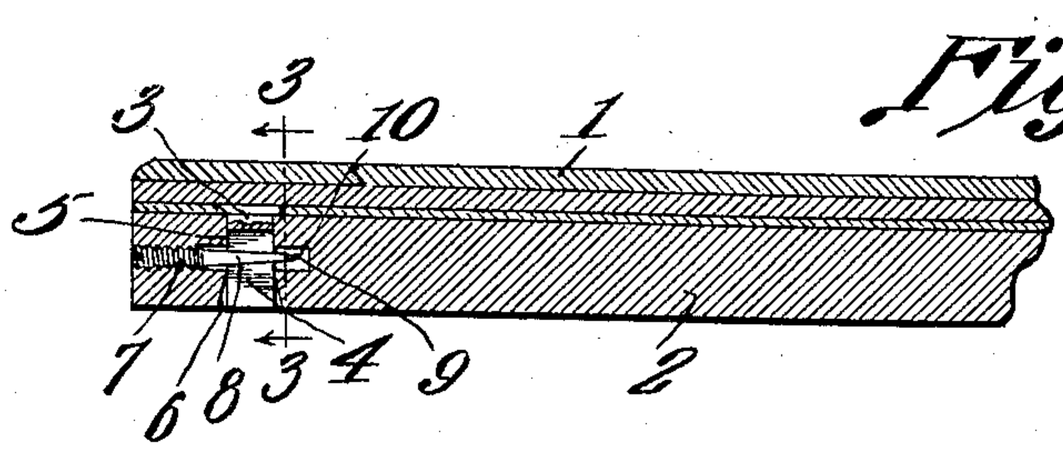


Fig. 3.

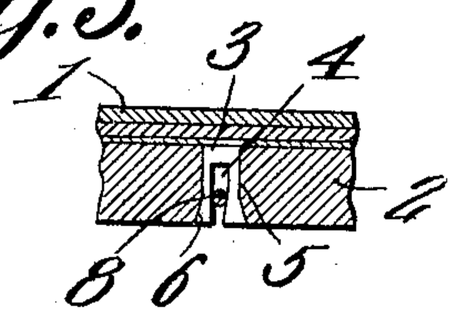
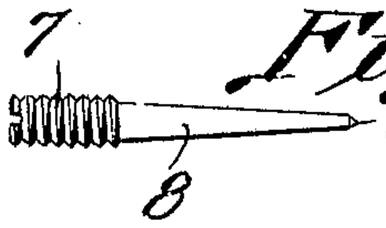


Fig. 4.



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UNITED STATES PATENT OFFICE.

JOHN HALEY, OF ARCOLA, ILLINOIS.

WATCH-DIAL FASTENER.

995,533. Specification of Letters Patent. **Patented June 20, 1911.**

Application filed December 14, 1910. Serial No. 597,273.

To all whom it may concern:

Be it known that I, JOHN HALEY, a citizen of the United States, residing at Arcola, in the county of Douglas and State of Illinois, have invented a new and useful Watch-Dial Fastener, of which the following is a specification.

This invention relates to watch dial fasteners.

The object of the invention is, in a ready, simple and thoroughly practical manner, and without involving any change in the structural arrangement either of the dial or of the watch plate, so to assemble the former with the latter, that loosening of the dial will positively be prevented, and further to secure this result without danger of straining the feet or of cracking the enamel of the dial.

With the above and other objects in view, as will appear as the nature of the invention is better understood, the same consists in the novel construction and combination of parts of a watch dial fastener, as will be hereinafter fully described and claimed.

In the accompanying drawing forming a part of this specification, and in which like characters of reference indicate corresponding parts: Figure 1 is a view in plan of a watch plate. Fig. 2 is a view in longitudinal section, on an enlarged scale, through a portion of a dial and a watch plate, showing the two parts held assembled with the fastener of the present invention. Fig. 3 is a transverse sectional view taken on the line 3—3 of Fig. 2. Fig. 4 is an enlarged detail view of one of the screws employed in holding the dial assembled with the plate.

Referring to the drawings, 1 designates, generally, the dial and 2 the plate, and as these parts may be of the usual or any preferred construction, further description thereof is deemed unnecessary.

The present invention resides in a novel form of foot, and screw coacting therewith for securing the foot in the plate. The foot 3, which as usual, is made of copper, is provided with a longitudinal slot or cleft 4 which may extend any desired distance through the length of the foot, the slot being wedge-shaped, the wider end being disposed adjacent to the dial, as clearly shown in Fig. 3. The opening 5 in the plate which receives the foot has its lower end flared at 6, and this flared portion is engaged by the lower ends of the foot members, the same being spread laterally by a screw 7 which, as usual, engages a lateral threaded orifice in the plate. The screw has a smooth tapered portion 8, which terminates in a conical point 9, and, when the screw is in position to lock the dial in place, this smooth portion passes between the foot members, and forces them apart, and causes them to engage the flared portion of the opening as above stated. In order to provide a wide range of adjustment of the foot, the opening 8 extends some distance beyond the wall of the opening 5, as shown at 10, so that there will be no end bearing for the screw, and by this arrangement the desired spreading of the screw may be secured. As will be obvious, the slot in the foot is very narrow, and in order that the smooth portion of the screw may readily enter the slot, the conical tip 9 is provided, which as will be obvious, will serve as a wedge to give the initial spreading to the foot members.

It will be seen from reference to Fig. 3 that the pressure of the screw will exert no draft or pressure on the foot that would tend to crack the enamel, and further that the distance between the walls of the lower end of the slot is less than the diameter of the screw, so that disconnection of the foot from the screw, by upward movement, will be impossible, even if the latter should work loose.

From the foregoing it will be seen that to adapt a watch to receive the fastener of the present invention will only necessitate the provision in the foot of the slot having anticlinal walls, the extending of the screw opening 8 inward beyond the wall of the leg receiving opening 6, and the peculiar construction of the screw 7.

I claim:—

1. The combination with a watch plate having an opening, of a dial carrying a foot provided with a wedge-shaped slot, the wider end of which is disposed adjacent to the dial, and means to spread the foot members to cause them to impinge against the walls of the opening.

2. The combination with a watch plate having a flared opening, of a dial carrying a foot provided with a wedge-shaped slot, the wider end of which is disposed adjacent to the dial, and means to spread the foot members to cause them to impinge against the walls of the opening.

3. The combination with a watch plate

having an opening formed with a countersunk inner end, of a dial carrying a foot having a flared inner end and a wedge-shaped slot, the wider end of which is disposed adjacent to the dial, and a screw to engage the walls of the slot to spread the foot members to cause their flared portions to engage with the countersunk portion of the opening.

4. The combination with a watch plate having an opening the inner end of which is countersunk, of a dial carrying a foot having a flared inner end and a wedge-shaped slot, the wider end of which latter is disposed adjacent to the dial, and a tapered screw to engage the walls of the slot to spread the foot members to cause them to engage with the countersunk portion of the opening, the diameter of the screw being greater than the distance between the walls at the open end of the slot, whereby positively to preclude disconnection of the foot from the screw even should the latter work loose.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN HALEY.

Witnesses:
J. S. QUIRK,
HARRY E. SCHWARZ.